CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/KRIDL/CUBE/2013-14 25.04.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Kodigahalli Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to Roads and Drains at Amco Layout in Ward No.08, BBMP, Bangalore.
Reference	: AEE/KH/438/2013-14 Dated: 24.03.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2014	25.04.2014	8.158	482.3	21.44
2	28.03.2014	25.04.2014	8.234	495.6	22.03
3	28.03.2014	25.04.2014	8.393	524.3	23.30

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the labor
3. Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.08/KRIDL/WMM/Gradation/2013-14 03.04.2014

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Asst. Executive Engineer,** Kodigahalli Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to Roads and Drains at Amco Layout in Ward No.08, BBMP, Bangalore.

Reference : AEE/KH/438/2013-14 Dated: 24.03.2014

Date of Testing : 03.04.2014

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25800

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	925	925	3.6	96.4	95-100
22.4	5425	6350	24.6	75.4	60-80
11.2	5985	12335	47.8	52.2	40-60
4.75	4425	16760	65.0	35.0	25-40
2.36	3855	20615	79.9	20.1	15-30
0.600	2250	22865	88.6	11.4	8-22
0.075	2650	25515	98.9	1.1	0-8

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Job No.: CTCE/BBMP/W.No.08/KRIDL/SDBC/Bitumen/2013-14 25.04.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

As per IS2386 and IRC:SP:11-1984

CLIENT	**Asst. Executive Engineer,** Kodigahalli Sub Division, BBMP, Bangalore.
AGENCY	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	Improvements to Roads and Drains at Amco Layout in Ward No.08, BBMP, Bangalore.
REFERENCE	AEE/KH/438/2013-14 Dated: 24.03.2014
SAMPLE I/D	Roads and Drains at Amco Layout in Ward No.08
DATE OF TESTING	25.04.2014

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	474
3. Weight of Asphalt and Mineral matter Extracted,	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	26.00
7. Bitumen content in %	5.20	5.20
8. Average	**5.20**	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	36.25	7.65	7.65	92.35	90-100
4.75	258.3	54.49	62.14	37.86	35-51
2.36	52.14	11.00	73.14	26.86	24-39
1.18	40.25	8.49	81.63	18.37	15-30
0.3	25.85	5.45	87.09	12.91	9-19
0.075	30.25	6.38	93.47	6.53	3-8

SIEVE SIZE	Trail 2				JOBMIX
mm	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	29.56	5.91	5.91	94.09	90-100
4.75	260.1	52.02	57.93	42.07	35-51
2.36	84.52	16.90	74.84	25.16	24-39
1.18	42.15	8.43	83.27	16.73	15-30
0.3	33.2	6.64	89.91	10.09	9-19
0.075	25.47	5.09	95.00	5.00	3-8

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